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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/681,195	02/16/2001	David J. Gemmell	MCS-067-00	1755
27662	7590 08/25/2006		EXAMINER	
MICROSOFT CORPORATION			JACOBS, LASHONDA T	
C/O LYON & HARR, LLP 300 ESPLANADE DRIVE SUITE 800			ART UNIT	PAPER NUMBER
			2157	
OXNARD, C	A 93036		DATE MAILED: 08/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/681,195	GEMMELL, DAVID J.			
Office Action Summary	Examiner	Art Unit			
	LaShonda T. Jacobs	2157			
The MAILING DATE of this communication app	_1				
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE!	tiely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on May	30, 2006.				
	2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) 1-16,18-27,35 and 36 is/are pending 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-16,18-27,35 and 36 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the land of th	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) _ Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)			
2) Notice of Profession's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	ate satent Application (PTO-152)				

DETAILED ACTION

Response to Amendment

This Office Action is in response to Applicant's Amendment/Request for Reconsideration filed on May 30, 2006. Claims 1, 25 and 27 have been amended. Claims 1-16, 18-27, 35 and 36 are presented for further examination.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-16, 18-27, 35 and 36 are rejected under 35 U.S.C. 102(e) as being anticipated by Tillman et al (hereinafter, "Tillman", 6,496,980).

As per claim 1, Tillman discloses a computer-implemented process for obtaining progressively higher quality versions of an audio-only program, video-only program, or audio and video over a client-server based network, comprising a client computer performing the process actions of:

requesting a base quality version of the program from a server over the network,
 wherein the base quality version of the program comprises at least a layer data of a
 layered unicast having hierarchically related layers in that the lowest level layer is a

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base layer and each subsequently higher level layer adds enhancing information for enhancing the quality of the program that can be rendered from the layers preceding it in the hierarchy, and wherein requesting a base quality version of the program from a server over the network comprises requesting as many layers in the order of their position in the hierarchy starting with the base layer, as can be transmitted from the server to the client without exceeding the available bandwidth of the network (abstract, col. 2, lines 47-59, col. 4, lines 54-57, col. 5, lines 25-44, col. 6, lines 14-22 and col. 10, lines 10-21);

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- receiving and caching the requested layer data associated with the base quality version of the program (col. 7, lines 36-50);
- requesting at least one enhancement layer of the layered unicast from the server over the network (col. 7, lines 36-50, col. 8, lines 13-16 and col. 9, lines 11-20);
- receiving and caching the requested enhancement layer data (col. 9, lines 11-20, lines 58-67 and col. 10, lines 1-7); and
- combining the requested enhancement layer data with the previously cached layer data associated with the base quality version of the program as it is received to produce a higher quality version of the program (col. 9, lines 11-20 and lines 44-57).

As per claim 2, Tillman further discloses:

• rendering the base quality version of the program as the requested data is received and presenting it to the user (col. 9, lines 11-20 and lines 44-57).

As per claim 3, Tillman further discloses:

• determining if the user directs that the presentation of the base quality version of the program be terminated (col. 10, lines 57-67 and col. 11, lines 15); and

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terminating the presentation of the base quality version of the program to the user (col. 10, lines 57-67 and col. 11, lines 15).

As per claim 4, Tillman discloses:

 wherein the process action of terminating the presentation comprises the action of terminating the incoming data stream associated with the requested base quality version of the program (col. 10, lines 57-67 and col. 11, lines 15).

As per claim 5, Tillman discloses:

• wherein the process action of terminating the presentation comprises the actions of stopping the rendering of the base quality version of the program, while continuing to receive and cache the incoming data stream associated with the requested base quality version of the program (col. 10, lines 57-67 and col. 11, lines 15).

As per claim 6, Tillman further discloses:

• a process action of rendering the higher quality version of the program from the combined layer data and presenting it to the user (col. 9, lines 11-20 and lines 44-57).

As per claim 7, Tillman further discloses:

- determining if the user directs that the presentation of the higher quality version of the program be terminated (col. 10, lines 57-67 and col. 11, lines 15); and
- terminating the presentation of the higher quality version of the program to the user (col. 10, lines 57-67 and col. 11, lines 15).

As per claim 8, Tillman discloses:

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• wherein the process action of terminating the presentation comprises the action of terminating the incoming data stream associated with the requested higher quality version of the program (col. 10, lines 57-67 and col. 11, lines 15).

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As per claim 9, Tillman discloses:

wherein the process action of terminating the presentation comprises the actions of stopping the rendering of the higher quality version of the program, while continuing to receive and cache the incoming data stream associated with the requested higher quality version of the program (col. 10, lines 57-67 and col. 11, lines 15).

As per claim 10, Tillman discloses:

• wherein the process actions of requesting at least one enhancement layer, receiving and caching the requested enhancement layer data and combining the requested enhancement layer data with the previously cached layer data associated with the base quality version of the program as it is received to produce said higher quality version of the program, are performed only when a user directs the client to provide a higher quality version of the program in comparison to the base quality version (col. 7, lines 36-50, col. 9, lines 11-20 and lines 44-57).

As per claim 11, Tillman discloses:

wherein the process actions of requesting at least one enhancement layer, receiving and
caching the requested enhancement layer data and combining the requested
enhancement layer data with the previously cached layer data associated with the base
quality version of the program as it is received to produce said higher quality version of
the program, are performed automatically once all the requested layer data associated

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with the base quality version of the program has been received and cached (col. 7, lines 36-50, col. 9, lines 11-20 and lines 44-57).

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As per claim 12, Tillman further discloses:

- requesting at least one additional enhancement layer of the layered unicast from the server over the network (col. 7, lines 36-50, col. 8, lines 13-16 and col. 9, lines 11-20);
- receiving and caching the requested additional enhancement layer data (col. 9, lines 11-20, lines 58-67 and col. 10, lines 1-7); and
- combining the requested additional enhancement layer data with the previously cached layer data associated with the base and higher quality versions of the program as it is received to produce an enhanced higher quality version of the program (col. 9, lines 11-20 and lines 44-57).

As per claim 13, Tillman further discloses:

- ascertaining whether the server has any remaining enhancement layers associated with the program available (col. 10, lines 43-56); and
- whenever it is ascertained that the server has at least one remaining enhancement layer associated with the program (col. 10, lines 43-56),
- requesting at least one additional enhancement layer of the layered unicast from the server over the network (col. 7, lines 36-50, col. 8, lines 13-16 and col. 9, lines 11-20),
- receiving and caching the requested additional enhancement layer data (col. 9, lines 11-20, lines 58-67 and col. 10, lines 1-7), and
- combining the requested additional enhancement layer data with the previously cached layer data associated with the base and higher quality versions of the program as it is

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received to produce an enhanced higher quality version of the program (col. 9, lines 11-20 and lines 44-57).

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As per claim 14, Tillman discloses:

• wherein the process actions of requesting at least one additional enhancement layer, receiving and caching the requested additional enhancement layer data and combining the requested additional enhancement layer data with the previously cached layer data associated with the base and higher quality versions of the program to produce said enhanced higher quality version of the program, are performed only when a user directs the client to provide the enhanced higher quality version of the program (col. 7, lines 36-50, col. 9, lines 11-20 and lines 44-57).

As per claim 15, Tillman discloses:

• wherein the process actions of requesting at least one additional enhancement layer, receiving and caching the requested additional enhancement layer data and combining the requested additional enhancement layer data with the previously cached layer data associated with the base and higher quality versions of the program to produce said enhanced higher quality version of the program, are performed automatically once all the requested layer data associated with the higher quality version of the program has been received and cached (col. 7, lines 36-50, col. 9, lines 11-20 and lines 44-57).

As per claim 16, Tillman further discloses:

• informing the user that an enhanced higher quality version of the program cannot be provided whenever it is ascertained that the server does not have any remaining enhancement layers associated with the program available (col. 10, lines 43-56).

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As per claim 18, Tillman discloses:

• wherein the process action of requesting at least one enhancement layer, comprises the action of requesting as many enhancement layers, in the order of their position in the hierarchy starting with the layer next higher in the hierarchy from the highest level layer requested in association with the base quality version of the program, as can be transmitted from the server to the client without exceeding the available bandwidth of the network (col. 6, lines 15-40, lines 53-67, col. 7, lines 1-3, lines 36-50, col. 9, lines

As per claim 19, Tillman discloses:

11-20 and lines 44-57).

wherein the process actions of requesting a base quality version of the program and requesting at least one enhancement layer comprises requesting that the data making up each layer be provided in its entirety (col. 7, lines 36-50, col. 9, lines 11-20 and lines 44-57).

As per claim 20, Tillman discloses:

• wherein the process action of requesting a base quality version of the program comprises the action of requesting the data making up each layer of the base quality version in sequential, equal-sized, temporally corresponding portions such that the layer portions associated with a time segment at the beginning of the program are requested first, and then the layer portions associated with the next sequential time segment of the program are requested, and so on (col. 9, lines 11-32, lines 44-57 and col. 10, lines 43-56).

As per claim 21, Tillman discloses:

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• wherein the process action of requesting the data making up each layer of the base quality version in sequential, equal-sized, temporally corresponding portions comprises the action of requesting said layer portions from as many layers, in the order of their position in the hierarchy starting with the base layer, as can be transmitted from the server to the client without exceeding the available bandwidth of the network (col. 9, lines 11-32, lines 44-57 and col. 10, lines 43-56).

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As per claim 22, Tillman discloses:

wherein the process action of requesting at least one enhancement layer of the program comprises the action of requesting the data making up each enhancement layer in sequential, equal sized, temporally corresponding portions such that the layer portions associated with time segment at the beginning of the program are requested first, and then the layer portions associated with the next sequential time segment of the program are requested, arid so on (col. 9, lines 11-32, lines 44-57 and col. 10, lines 43-56).

As per claim 23, Tillman discloses:

wherein the process action of requesting the data making up each enhancement layer in sequential, equal-sized, temporally corresponding portions, comprises the action of requesting said enhancement layer portions from as many enhancement layers, in the order of their position in the hierarchy starting with the layer next higher in the hierarchy from the highest level layer requested in association with the base quality version of the program, as can be transmitted from the server to the client without exceeding the available bandwidth of the network (col. 9, lines 11-32, lines 44-57 and col. 10, lines 43-56).

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As per claim 24, Tillman discloses:

• wherein the length of each time segment of the program is matched to the rate at which the available bandwidth varies on the network such that each time segment is short enough that the network bandwidth does not vary significantly over the period (col. 5, lines 46-67, col. 6, lines 1-6 and lines 14-40).

As per claim 25, Tillman discloses a client-server based computer network for obtaining progressively higher quality versions of an audio-only program, video-only program, or audio and video, comprising:

- a client comprising at least one general purpose computing device (col. 4, lines 31-36 and lines 54-57); and
- a computer program comprising program modules executable by the client, wherein the client is directed by the program modules to (col. 12, lines 29-34)
- receive an instruction from a user to provide the program for viewing (col. 4, lines 31-36)
- request a base quality version of the program from a server over the network, wherein the base quality version of the program comprises at least a base layer of a layered unicast having hierarchically related layers in that the lowest level layer is a base layer and each subsequently higher level layer adds enhancing information for enhancing the quality of the program that can be rendered from the layers preceding it in the hierarchy, and wherein requesting a base quality version of the program from a server over the network comprises requesting as many layers in the order of their position in the hierarchy starting with the base layer, as can be transmitted from the server to the client

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without exceeding the available bandwidth of the network (abstract, col. 2, lines 47-59, col. 4, lines 54-57, col. 5, lines 25-44, col. 6, lines 14-22 and col. 10, lines 10-21),

- receive and cache the requested layer data associated with the base quality version of the program (col. 7, lines 36-50),
- render the base quality version of the program as the requested data is received and present it to the user (col. 9, lines 11-20 and lines 44-57),

As per claim 26, Tillman further discloses:

- determining if the user directs that the presentation of the base quality version of the program be terminated (col. 10, lines 57-67 and col. 11, lines 15);
- whenever it is determined that the user has directed that the presentation of the base quality version of the program be terminated, terminating said presentation (col. 10, lines 57-67 and col. 11, lines 15).

As per claim 27, Tillman discloses a computer-readable medium having computer-executable instructions that are executed on a client computer for obtaining progressively higher quality versions of an audio-only program, video-only program, or audio and video over a network, said computer-executable instructions comprising:

• requesting a base quality version of the program, wherein the base quality version of the program comprises at least a base layer of a layered unicast having hierarchically related layers in that the lowest level layer is a base layer and each subsequently higher level layer adds enhancing information for enhancing the quality of the program that can be rendered from the layers preceding it in the hierarchy, and wherein requesting a base quality version of the program from a server over the network comprises requesting as

many layers in the order of their position in the hierarchy starting with the base layer, as can be transmitted from the server to the client without exceeding the available bandwidth of the network (abstract, col. 2, lines 47-59, col. 4, lines 54-57, col. 5, lines 25-44, col. 6, lines 14-22 and col. 10, lines 10-21);

- receiving and caching the requested layer data associated with the base quality version of the program (col. 7, lines 36-50);
- rendering the base quality version of the program as the requested data is received and presenting it to the user (col. 9, lines 11-20 and lines 44-57);

As per claim 35, Tillman further discloses program modules for:

- determining if the user directs that a higher quality version of the program be provided for viewing (col. 7, lines 36-50);
- whenever it is determined that the user has directed a higher quality version of the program to be provided (col. 7, lines 36-50);
- request at least one enhancement layer of the layered unicast from the server over the network (col. 7, lines 36-50, col. 8, lines 13-16 and col. 9, lines 11-20);
- receive and cache the requested enhancement layer data (col. 9, lines 11-20, lines 58-67 and col. 10, lines 1-7); and
- combine the requested Enhancement layer data with the previously cached layer data associated with the base quality version of the program as it is received to produce the higher quality version of the program, and render the higher quality version of the program from the combined layer data and present it to the user (col. 9, lines 11-20 and lines 44-57).

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As per claim 36, Tillman further discloses:

upon a user directing that a higher quality version of the program being provided,
 requesting at least one enhancement layer of the layered unicast from the server over the
 network (col. 7, lines 36-50);

- receiving and caching the requested enhancement layer data (col. 7, lines 36-50, col. 8, lines 13-16 and col. 9, lines 11-20);
- combining the requested enhancement layer data with the previously cached layer data associated with the base quality version of the program as it is received to produce a higher quality version of the program (col. 9, lines 11-20 and lines 44-57); and
- rendering the higher quality version of the program from the combined layer data and presenting it to the user (col. 9, lines 11-20, lines 44-67 and col. 10, lines 1-7).

Response to Arguments

3. Applicant's arguments with respect to claims 1-16, 18-27 and 35-36 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LaShonda T. Jacobs whose telephone number is 571-272-4004. The examiner can normally be reached on 8:30 A.M.-5:00 P.M..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ltj August 17, 2006 LaShonda T Jacobs Examiner Art Unit 2157

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